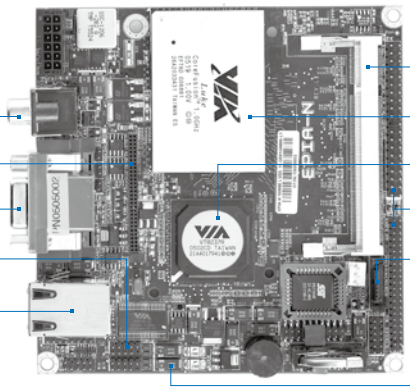
Nano-ITX Series

VIA

EPIA N

Nano-ITX Luke Board with MPEG-2 & 4, DVI/LVDS and HDTV Support

Board Placement



Features

- Integrated VIA UniChrome™ Pro AGP graphic with MPEG-2/4 decoding acceleration
- Supports DDR400 SDRAM (SODIMM)
- Supports HDTV resolution
- Supports one Mini PCI as expansion slot on bottom side
- Supports six USB2.0 ports (four as pin headers)

CE FC

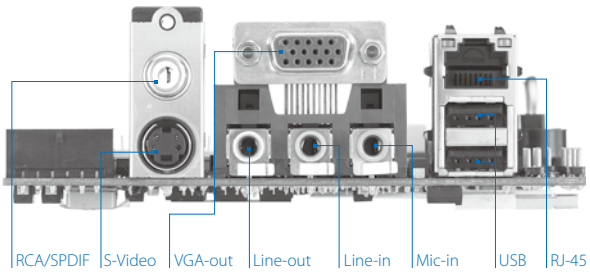
ROHS COMPLIANT

Specifications

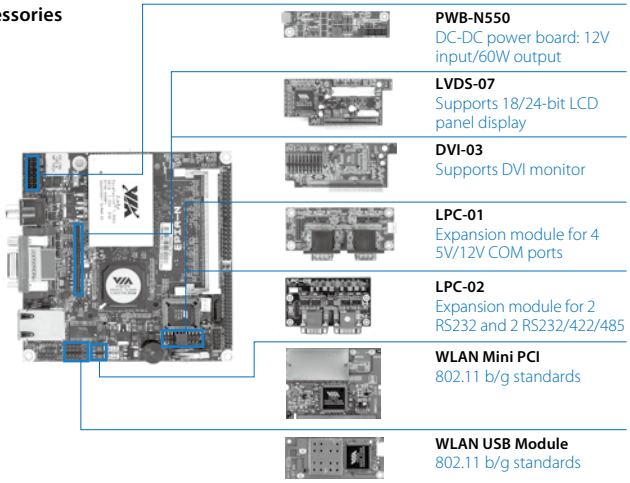
Model Name	EPIA N10000G	EPIA N8000EG	EPIA N5000EG
Core Logic	1.0GHz VIA Luke VIA VT8237R Plus South Bridge	800MHz VIA fanless Luke VIA VT8237R Plus South Bridge	500MHz VIA fanless Luke VIA VT8237R Plus South Bridge
System Memory	1 x DDR400/333/266 SODIMM socket Up to 1GB memory size		
VGA	Integrated VIA UniChrome™ Pro AGP graphics with MPEG-2/4 decoding acceleration		
Expansion Slot	1 x Mini PCI slot		
Onboard IDE	2 x UltraDMA 133/100/66 connectors (secondary 2.0 mm 44-pin header)		
Onboard Serial ATA	1 x SATA connector		
Onboard LAN	1 x VIA VT6103 10/100 Mbps Ethernet controller		
Onboard Audio	VIA VT1617A 6-channel AC'97 Codec		
Onboard TV Out	VIA VT1625M TV Encoder		
Onboard I/O Connectors	2 x USB connectors for 4 additional USB 2.0 ports 1 x VIP connector 1 x SIO connector for SIR and LPC 1 x YPbPr connector (component TV output connector) 1 x LVDS/DVI module connector, for 18/24-bit dual channel LVDS panel (an add-on card is required) 1 x Front panel connector 1 x Keyboard/mouse connector 1 x Fan connector for CPU fan 1 x Nano-ITX power connector		
Back Panel I/O	1 x RCA port (S/PDIF or TV out) 1 x S-Video port 1 x VGA port 1 x RJ-45 LAN port 2 x USB 2.0 ports 3 x Audio jacks: Line-out, Line-in and Mic-in (horizontal, Smart 5.1 support)		
BIOS	Award BIOS 4/8Mbit flash memory		
Operating System	Windows XP, Linux, Win CE, XPe		
System Monitoring & Management	CPU temperature monitoring CPU voltage monitoring Fan control Watch Dog Timer Wake-on LAN, Keyboard Power-on, Timer Power-on System power management AC power failure recovery		
Operating Temperature	0°C - 50°C		
Operating Humidity	0% ~ 95% (relative humidity; non-condensing)		
Form Factor	Nano-ITX (8-layer) 12 cm x 12 cm		

VIA Embedded

Back Panel I/O



Accessories



PWB-N550
DC-DC power board: 12V input/60W output

LVDS-07
Supports 18/24-bit LCD panel display

DVI-03
Supports DVI monitor

LPC-01
Expansion module for 4 5V/12V COM ports

LPC-02
Expansion module for 2 RS232 and 2 RS232/422/485

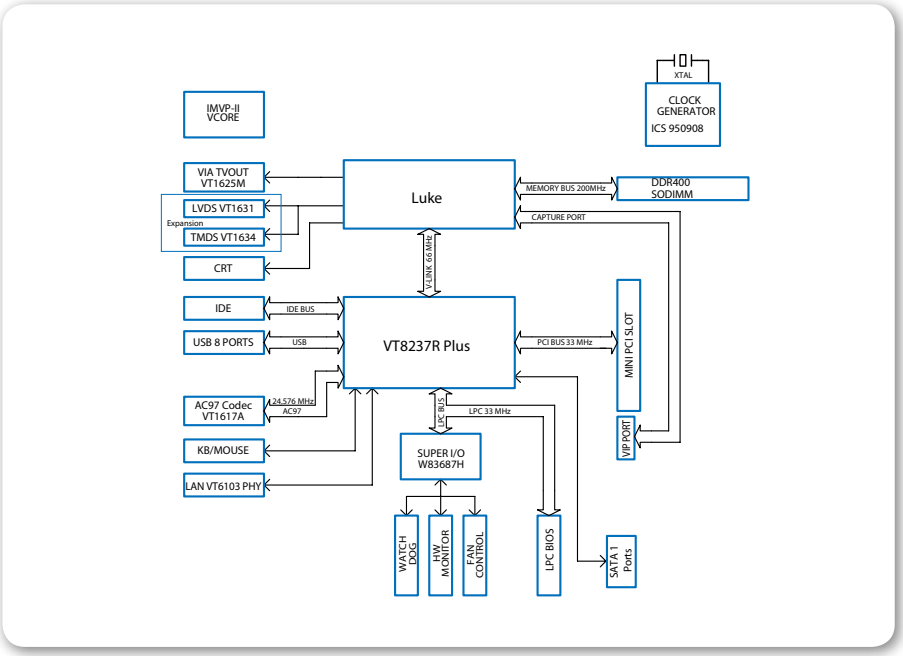
WLAN Mini PCI
802.11 b/g standards

WLAN USB Module
802.11 b/g standards

Ordering Information

Model Name	CPU Frequency	Description
N10000G	1.0GHz Luke	Nano-ITX Board with 1.0GHz Luke Processing Unit, VGA, USB, LAN, LVDS, DVI, TV-out, IDE & SATA
N8000EG	800MHz Luke	Nano-ITX Fanless Board with 800MHz Luke Processing Unit, VGA, USB, LAN, LVDS, DVI, TV-out, IDE & SATA
N5000EG	500MHz Luke	Nano-ITX Fanless Board with 500MHz Luke Processing Unit, VGA, USB, LAN, LVDS, DVI, TV-out, IDE & SATA

Block Diagram



Packing List

Items
1 x ATA-66/100/133 IDE ribbon cable
1 x PS2 cable
1 x USB cable
1 x Power cable
1 x General installation guide
1 x Driver Utility CD